

## CLAIMS

1. A method of producing a composite magnetic body, comprising the steps of:

preparing flat soft magnetic powder subjected to annealing to be free from stress strain;

mixing said flat soft magnetic powder, a binder, and a solvent for dissolving said binder to form a slurry-like mixture;

forming said mixture into a film; and

removing said solvent from said film to produce a sheet of said composite magnetic body.

2. A method as claimed in claim 1, wherein said flat soft magnetic powder is subjected to surface treatment by the use of a coupling agent.

3. A method as claimed in claim 2, wherein said coupling agent is one of a silane-based coupling agent and a titanate-based coupling agent.

4. A method as claimed in claim 1, wherein said binder is chlorinated polyethylene.

5. A method as claimed in claim 1, wherein said sheet is pressed in a direction perpendicular to a plane of said sheet.

6. A method as claimed in claim 5, wherein said sheet is pressed by the use of at least one of a hot press, a rolling mill comprising a plurality of rolls between which said sheet is pressed, a rolling mill comprising an endless belt and a roll between which said sheet is pressed, a rolling mill comprising a plurality of endless belts between which said sheet is pressed.

7. A method as claimed in claim 5, wherein said sheet is pressed by the use of a rolling mill comprising a plurality of rolls between which said sheet is pressed, at least one of said rolls being one of a surface-deformable roll having a surface subjected to resin coating and a surface-deformable roll made of one of a

rubber and a macromolecule material having a rubber hardness of 90 or more and having a surface portion elastically deformable. *object claim*

8. A method as claimed in claims 5, wherein said sheet is pressed by the use of a rolling mill comprising a plurality of rolls between which said sheet is pressed, at least one of said rolls having a surface portion elastically deformable, said at least one having an outer peripheral surface which is press contacted with the other roll to have a depressed portion engaged with the outer peripheral surface of the other roll.

9. A method as claimed in claim 1, wherein said sheet is formed by layering and pressing a plurality of sheet elements of a composite magnetic body to form an integral structure.

10. A method as claimed in claim 9, wherein a conductive material is interposed between sheet elements.

11. A composite magnetic body produced by the method according to claim 1.

12. ~~A~~ composite magnetic body comprising:  
flat soft magnetic powder subjected to annealing to be free from stress strain; and

a binder mixed to said flat soft magnetic power. *object*

13. A composite magnetic body as claimed in claim 12, wherein said flat soft magnetic powder is subjected to surface treatment by the use of a coupling agent.

14. A composite magnetic body as claimed in claim 13, wherein said coupling agent is one of a silane-based coupling agent and a titanate-based coupling agent.

15. A composite magnetic body as claimed in claim 12, wherein said binder is chlorinated polyethylene.

16. A composite magnetic member comprising:  
a planar conductive material having both surfaces; and  
composite magnetic bodies according to claim 12 arranged in said both  
surface of the planar conductive material.

objection